



Update IAG Service Products for GGOS

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IAG Services DC Support for GGOS

- Data centers supporting the IAG services receive data and products on predetermined schedules
- ACs submit derived products to data centers for use by combination centers and general user community
- The IAG services use dedicated data centers to archive discipline-specific data and products
- These data centers are the main source for each service's analysis centers, combination centers, and global research communities
- In support of GGOS the service's data centers will retain archive of data and products
- The data centers will provide metadata for their holdings to the GGOS portal
- Users will search portal metadata to find and retrieve data and products located at the data centers



What is Needed?

- Complete list of products
 - Initial list available on web:
 - http://cddis.gsfc.nasa.gov/ggos/serviceprods_table.html
 - Limitations:
 - Need feedback from services
 - Primary source of such information is service websites
- New products
 - Need to identify
 - Then, identify data centers to support (through services)
- User discovery
 - GGOS Data and Information Working Group has identified initial metadata standards
 - Services, through their data centers, will implement these standards and automatically provide metadata to portal
 - Users will search for products through portal
 - Applications will be available for data mining, visualization, etc.

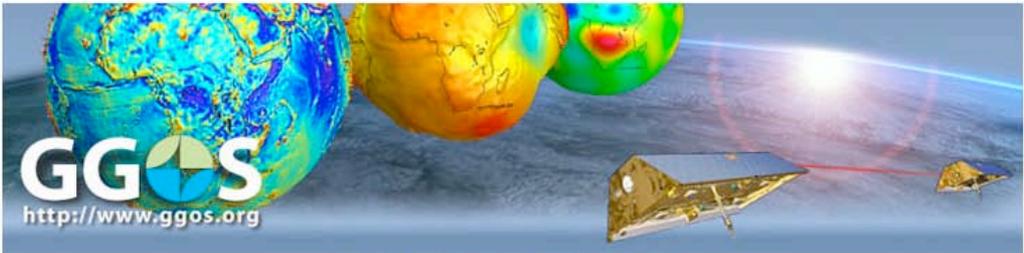


Products List on Web

http://cddis.gsfc.nasa.gov/ggos/serviceprods_table.html

http://cddis.gsfc.nasa.gov/ggos/serviceprods_table.html

http://cddis.gsfc.nasa.gov/ggos/...



GGOS
http://www.ggos.org

**IAG Service Data and Products
Current Status**

Sorted by Service

Data Set	Processing Level	Resolution ¹	Frequency ²	Accuracy	Time Span	Latency
IGS (PDF/On-line information)						
Pseudorange and phase observations (ground stations)	Data	30 sec, 1 sec	Daily, hourly, and sub-hourly	75 ps RMS; 20 ps Sdev	1991-date	5 min to days
Broadcast ephemerides	Data	Daily	Daily, hourly, and sub-hourly		1991-date	5 min to days
Meteorological data	Data	Minutes to hours	Daily, hourly, and sub-hourly		1991-date	5 min to days
Pseudorange and phase observations (ground stations)	Data		Real-time		1991-date	Real-time
Pseudorange and phase observations (satellite)	Data	30 sec	Daily		2002-date	Daily
Station positions	Product	Weekly	Weekly	3 mm horizontal; 6 mm vertical		11-17 days
Station velocities	Product	Weekly	Weekly	2 mm/yr horizontal; 3 mm/yr vertical		11-17 days
Station and satellite clock solutions (final)	Product	30 s (station) 5 min (satellite)	Weekly	75 ps RMS; 20 ps Sdev	1993-date	12-18 days
Station and satellite clock solutions (rapid)	Product	5 min	Daily	75 ps RMS; 20 ps Sdev	2000-date	17-41 hours
Satellite clock solutions (ultra-rapid observed)	Product	15 min	Sub-daily	150 ps RMS; 50 ps Sdev	2000-date	3-9 hours
Satellite clock solutions (ultra-rapid predicted)	Product	15 min	Sub-daily	3 ns RMS; 1.5 ns Sdev	2000-date	3-9 hours
Station and satellite clock solutions (real-time)	Product		Real-time		Future	Real-time

